PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. 29.09.2004 30.09.2003 PCT/GB2004/004161 International Patent Classification (IPC) or both national classification and IPC B41M5/30 Applicant ARJO WIGGINS LIMITED This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III ☐ Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Certain defects in the international application ☐ Box No. VII ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. **Authorized Officer** Name and mailing address of the ISA:

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

10/573887 International application No. PCT/GB2004/004161

IAP20 Rec'd 7577 PTO 29 MAR 2006

	Box No.	Basis of the opinion					
1.	With rega	rd to the language , this opinion has been established on the basis of the international application in age in which it was filed, unless otherwise indicated under this item.					
	langu	opinion has been established on the basis of a translation from the original language into the following lage , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of	material:					
	□ а	sequence listing					
	□ ta	ble(s) related to the sequence listing					
b. format of material:							
	□ in	written format					
	□ ir	computer readable form					
	c. time of	filing/furnishing:					
	□ с	ontained in the international application as filed.					
	□ fi	ed together with the international application in computer readable form.					
	□ fu	urnished subsequently to this Authority for the purposes of search.					
3.	has copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.					
4.	Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004161

	Box	No. II	Priority						
1.	☐ The following document has not been furnished:								
copy of the earlier application whose priority has been claimed (Rule 43bis.1 and					rity has been claimed (Rule 43bis.1 and 66.7(a)).				
☐ translation of the earlier application whose priority has been				e priority has been claimed (Rule 43bis.1 and 66.7(b)).					
Consequently it has not been possible to consider the validity of the priority claim. This opinion hat nevertheless been established on the assumption that the relevant date is the claimed priority date.									
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.		It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
4.	Additional observations, if necessary:								
	·· · · · · · · · · · · · · · · · · · ·								
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
Statement									
				\\·	Olaima	0.5.14.17.00.04			
	Novelty (N)		Yes: No:	Claims Claims	2-5,14-17,23-24 1,6-13,18-22,25-26				
				110.	Olamio	1,0 10,10 ==,=0 ==			
	Inventive step (IS)		tep (IS)	Yes:	Claims				
Inc				No:	Claims	1-26			
		ndustrial applicability (IA)		Yes:	Claims	1-26			
			7 ()	No:	Claims				
2.	Cita	ations a	nd explanations						

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/004161

Re Item V

IAP20 Rec'd FOTIPTO 29 MAR 2006

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: WO 02/064376 A

D2: PATENT ABSTRACTS OF JAPAN vol. 0131, no. 77 (M-818), 26 April 1989

(1989-04-26) & JP 1 008087 A

D3: US-A-5 134 189

1. The subject-matter of independent claims 1,13,25,26 does not appear to be novel Art 33(2) PCT for the following reasons:

The document D1 describes a method of preparing a printable sheet comprising providing a substrate comprising a base sheet which is a clay coated paper (page 7, lines 1-4) and using flexographic (page 5, line 3-5) technique, printing onto the coated surface a thermal composition which comprises a colour former, a colour developer and a sensitizer which is dimethylterephthalate (page 2, lines 13-21). The composition also comprises a kaolin or calcium carbonate (page 4, last §) as pigment. The expression ink in present claims is not regarded to imply anything else then a composition.

D1 also discloses the thermally printable sheet obtainable by printing as defined above with a composition or ink as defined above and therewith anticipates the subject-matter of present claim 13.

Claims 25 and 26 are directed to a method of printing said ink upon said coated surface (as defined above). The features of present claims 25 and 26 are therefore also disclosed by D1 (see passages above). The statement of a problem (i.e. to reduce...) in present claims 25 and 26 is not regarded as an additional technical feature of these claims.

2. The document D2 describes a method comprising the features of present claim 1 (see abstract) except that the ink does seem to comprise specifically DMT as sensitizer.

International application No.

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The objective problem may therefore be regarded as to choose a sensitizer in a thermal ink.

Such inks comprising DMT as sensitizer are however well known and merely constitute an obvious possibility among obvious alternatives from which the skilled man would choose.

Hence this selection is to be regarded as obvious in particular in view of D3 which is also concerned with storage stability as present application, see D3 column 2, lines 44-61 and which shows the composition of the ink as defined in present claims, see D3 column 2, lines 23-44, column 3, lines 43-50, column 6, line 23 and column 6, lines 15-16.

The additional features of the dependent claims 2-12 and 14-24 are also either disclosed in D1- D3 or are regarded as trivial features which do not seem to provide for any additional unexpected effect.